

Seat No.	
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B.B.A. (Part - II) (Semester - III) Examination, Nov. - 2013
STATISTICAL TECHNIQUES FOR BUSINESS (Paper - I)
Sub. Code : 43940

Day and Date : Friday, 29 - 11 - 2013

Total Marks : 40

Time : 3.00 p.m. to 5.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Graph paper will be supplied on request.
 - 4) Use of non programmable calculator is allowed

Q1) Attempt any two :**[14]**

- a) Define statistics. Distinguish between primary data and secondary data.
- b) Define mean and mode. Calculate mean and mode from the following data.

No. of Children (x)	1	2	3	4	5	6	7
No. of Families (f)	7	9	25	22	18	11	8

- c) Define spearman's rank correlation co-efficient and find it for following data.

Values of x	43	34	36	50	45	43	42
Values of y	112	115	120	110	108	113	101

Q2) Attempt any Two :**[16]**

- a) Following data gives number of catches taken by Dhoni and Kartik behind the wickets. Find, who is consistent in the matter of taking catches?

Catches taken by	Dhoni	4	5	3	4	2
	Kartik	1	0	4	4	1

- b) What is an less than ogive curve? Draw a less than ogive curve from the following data and hence determine median from it.

marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	3	9	15	30	18	5

- c) State the equations of two regression lines.

From 10 observations on price (x) and supply (y) of a commodity the following data were obtained.

$$\Sigma x = 130, \Sigma y = 220, \Sigma x^2 = 2288, \Sigma xy = 3467.$$

Compute the equation of the line of regression of y on x and estimate the supply when price is 16 units.

- d) Define median and state its merits and demerits. Compute the values of mean and median for the following data.

class	10-20	20-30	30-40	40-50	50-60
Frequency	7	9	15	11	8

Q3) Attempt any two :

[10]

- a) State the relationship between mean, median and mode. Use it to find mean, if median is 43 and mode is 40.
- b) Define M.D. about mean. Find M.D. about mean for the following observations.

35, 31, 29, 63, 55, 72, 37.

- c) Define correlation coefficient between two variables x and y. Calculate the correlation coefficient between x and y for the following data and comment on your result.

x	3	5	4	6	2
y	3	4	5	2	6

